WELD JOINTING METHOD OF STEEL MATERIAL SUPERIOR IN ARREST PROPERTY

Patent number:

JP2000158127

Publication date:

2000-06-13

Inventor:

AZUMA SEIZABURO; SUZUKI TAKAHIKO; INOUE

TAKEHIRO; KOSEKI TOSHIHIKO

Applicant:

NIPPON STEEL CORP

Classification:

- international:

B23K9/00; B23K33/00; B23K103/04

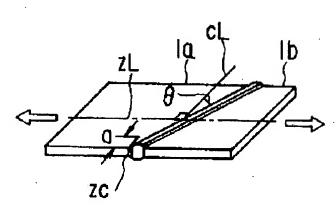
- european:

Application number: JP19980339896 19981130 Priority number(s): JP19980339896 19981130

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Abstract of JP2000158127

PROBLEM TO BE SOLVED: To provide a weld joining method of a steel material superior in arrest property by which a weld joining part is obtainable in a way that an outlooking, fixing is good and brittleness rupture can be prevented at low cost. SOLUTION: When a steel material superior in arrest property is welded, the spreading of brittleness cracking is stopped by means of an arrest property base metal by setting a welding line with an angle of 20 degrees or more against a line orthogonal to a material axis, or crocked at more than two points. In this case, the method is applied when, for example, a Ni inclusive steel, whose toughness value Kc at the lowest using temperature is 300 kgf/mm1.5 or more, or a steel whose surface layer is ultra fine grain and the like is used as a steel material superior in arrest property.



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영Title:

JP2000158127A2: WELD JOINTING METHOD OF STEEL MATERIAL

SUPERIOR IN ARREST PROPERTY

PDerwent Title:

Welding steels with excellent crack arresting property, involves making

weld line inclined to line which crosses joining direction of welded

materials orthogonally [Derwent Record]

ਊ Country:

JP Japan

♥Kind:

A2 Document Laid open to Public inspection 1

8 Inventor:

AZUMA SEIZABURO; SUZUKI TAKAHIKO; **INOUE TAKEHIRO;** KOSEKI TOSHIHIKO;

8 Assignee:

NIPPON STEEL CORP

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Published / Filed:

2000-06-13 / 1998-11-30

PApplication

JP1998000339896

Number: **VIPC** Code:

B23K 9/00; B23K 33/00; B23K 103/04;

& Priority Number:

1998-11-30 JP1998000339896

PAbstract:

PROBLEM TO BE SOLVED: To provide a weld joining method of a steel material superior in arrest property by which a weld joining part is obtainable in a way that an outlooking, fixing is good and

brittleness rupture can be prevented at low cost.

SOLUTION: When a steel material superior in arrest property is welded, the spreading of brittleness cracking is stopped by means of an arrest property base metal by setting a welding line with an angle of 20 degrees or more against a line orthogonal to a material axis, or crocked at more than two points. In this case, the method is applied when, for example, a Ni inclusive steel, whose toughness value Kc at the lowest using temperature is 300 kgf/mm1.5 or more, or a steel whose surface layer is ultra fine grain and the like is used as a steel material superior in arrest property.

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Info:

None

POther Abstract

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8 Derwent Title:

Welding steels with excellent crack arresting property, involves making weld line inclined

to line which crosses joining direction of welded materials orthogonally

8 Original Title:

☑ JP2000158127A2: WELD JOINTING METHOD OF STEEL MATERIAL SUPERIOR IN

ARREST PROPERTY

PAssignee:

NIPPON STEEL CORP Standard company

Other publications from NIPPON STEEL CORP (YAWA)...

VInventor:

None

VAccession/

2000-445948 / 200039

Update:

PIPC Code:

B23K 9/00; B23K 33/00; B23K 103/04;

8 Derwent Classes:

M23; P55;

Manual Codes:

M23-D01A(Arc welding/cutting, plasma arc - methods [general])

P Derwent

Abstract:

(JP2000158127A2) Novelty - The weld line between the welded materials (1a,1b) is made to be inclined to a line which crosses the joining direction of the welded materials orthogonally in case

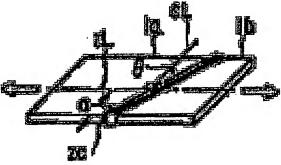
steel materials which have an excellent arrest property are welded.

Use - For weldbonding of steel materials having excellent arrest property such as Ni content steel, surface layer ultrafine particle steel etc. used for the buildup of structural members in construction

of steel structures.

Advantage - The generation of brittle fracture at a welded joint can be prevented when welding steel materials excellent in arrest property since the weld line is inclined to a line which crosses the joining direction orthogonally. The transmission of a brittle crack can be arrested within a short length of less than 10 mm. The plastic deformation capability of structural members of construction or construction structures can be improved. The earthquake resistance of construction structures

can be enhanced.



Description of Drawing(s) - The drawing is an explanatory diagram showing the formation of a graded junction part between thick steel plates having excellent arrest property. Welded materials 1a,1b Dwg.2/15

PFamily:

PDF Patent

Pub. Date Derwent Update Pages Language IPC Code

JP2000158127A2 * 2000-06-13

200039

English

B23K 9/00

Priority Number:

Application Number	Filed	Original Title
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Welding steels with excellent crack arresting property, involves making weld line inclined to line whic... Page 2 of 2

JP1998000339896 1998-11-30 WELD JOINTING METHOD OF STEEL MATERIAL SUPERIOR IN ARREST PROPERTY

₹Title Terms:

WELD STEEL CRACK ARREST PROPERTIES WELD LINE INCLINE LINE CROSS JOIN

DIRECTION WELD MATERIAL ORTHOGONAL

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